

INTERNATIONAL SEARCH REPORT

PCT/EP 03/50102

21 OCT 2004

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B47/06 E21B47/01 E21B49/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 984 135 A (SCHLUMBERGER SERVICES PETROL ; SCHLUMBERGER HOLDINGS (VG)) 8 March 2000 (2000-03-08) cited in the application abstract figures 1,2,7	1
A	EP 0 994 238 A (SCHLUMBERGER SERVICES PETROL ; SCHLUMBERGER HOLDINGS (VG)) 19 April 2000 (2000-04-19) abstract	1
A	US 5 765 637 A (DIETLE LANNIE ET AL) 16 June 1998 (1998-06-16) abstract	1
	--- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

25 July 2003

Date of mailing of the international search report

01/08/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040. Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Schouten, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/50102

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0 791 723 A (SCHLUMBERGER SERVICES PETROL ;SCHLUMBERGER TECHNOLOGY BV (NL); SCH) 27 August 1997 (1997-08-27) abstract</p> <p>-----</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/50102

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0984135	A	08-03-2000	US 6070662 A	06-06-2000
			AU 758816 B2	03-04-2003
			AU 4015399 A	09-03-2000
			BR 9903775 A	09-10-2001
			CN 1249392 A	05-04-2000
			EP 0984135 A2	08-03-2000
			NO 993947 A	21-02-2000
			RU 2169837 C2	27-06-2001
			US 2002149498 A1	17-10-2002
			US 2002171560 A1	21-11-2002
			US 2003058125 A1	27-03-2003
			US 6426917 B1	30-07-2002
EP 0994238	A	19-04-2000	US 6164126 A	26-12-2000
			AU 756138 B2	02-01-2003
			AU 5019699 A	20-04-2000
			BR 9904424 A	05-09-2000
			CN 1251408 A	26-04-2000
			EP 0994238 A2	19-04-2000
			NO 994994 A	17-04-2000
			RU 2178525 C2	20-01-2002
US 5765637	A	16-06-1998	NONE	
EP 0791723	A	27-08-1997	US 5692565 A	02-12-1997
			AU 720235 B2	25-05-2000
			AU 1479597 A	28-08-1997
			CA 2197962 A1	21-08-1997
			EP 0791723 A1	27-08-1997
			NO 970769 A	21-08-1997